CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/RP/W.No.08/Steel/2019-20 22.06.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
*** Name of work**	:	Construction of drain and improvements of culverts at Balaji Layout in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated : 10.01.2019
*** Samples ID**	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	22.06.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	554	13.3	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-07/1017/Cube/2019-20 22.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
*** Name of the work**	:	Construction of drain and improvements of culverts at Balaji Layout in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated : 10.01.2019
*** Sample ID**	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2019	22.07.2019	8.262	494.8	21.99
2	24.06.2019	22.07.2019	8.346	505.2	22.45
3	24.06.2019	22.07.2019	8.414	517.9	23.02

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	22.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.06.2019	22.07.2019	8.353	523.8	23.28
2	24.06.2019	22.07.2019	8.248	512.2	22.76
3	24.06.2019	22.07.2019	8.197	501.3	22.28

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*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
*** Name of the work**	:	Construction of drain and improvements of culverts at Balaji Layout in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated : 10.01.2019
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2019	23.07.2019	8.250	485.5	21.58
2	25.06.2019	23.07.2019	8.363	496.4	22.06
3	25.06.2019	23.07.2019	8.476	504.7	22.43

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-07/1017/Cube/2019-20 23.07.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
*** Name of the work**	:	Construction of drain and improvements of culverts at Balaji Layout in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated : 10.01.2019
*** Sample ID**	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.07.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.06.2019	23.07.2019	8.246	485.3	21.57
2	25.06.2019	23.07.2019	8.174	478.7	21.28
3	25.06.2019	23.07.2019	8.351	501.9	22.31

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Job No.: CTCE/BBMP/RP/W.No.08/CSR-07/1017/Kerbstone/2019-20 29.06.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

*** Customer**	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. R. Prakash** M/s. Brinda Constructions, No. 19&20, 1st Main Road, Jai Maruthinagara, Nandini Layout, Bangalore - 560096.
*** Name of work**	:	Construction of drain and improvements of culverts at Balaji Layout in Ward No. 08, Kodigehalli, BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/211/2018-19 Dated : 10.01.2019
*** Sample ID**	:	Kerbstone
*** Grade of Concrete**	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	27.06.2019
Date of Testing	:	29.06.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.384	2507.30	1.56	0.952	22.65	11.54	12.46	13.08	16.35
2	50.00	80.00	0.395	2514.65	1.60	0.957	25.65	13.06	14.11	13.50	16.87
3	50.00	81.00	0.403	2533.90	1.62	0.959	26.50	13.50	14.58	13.98	17.47

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